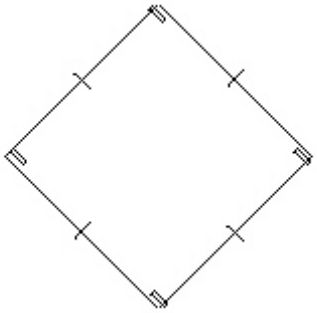
Name: _____ **ID:** _____

Email: _____

Quiz 6-1 to 6-3

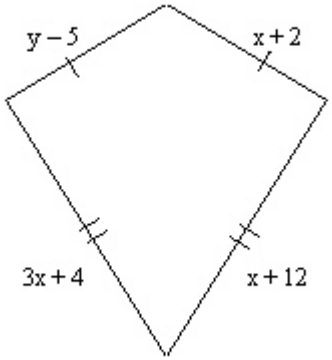
Multiple Choice
Identify the choice that best completes the statement or answers the question.

_____ 1 Judging by appearance, classify the figure in as many ways as possible.



a. rectangle, square, quadrilateral, parallelogram, rhombus
b. rectangle, square, parallelogram
c. rhombus, trapezoid, quadrilateral, square
d. square, rectangle, quadrilateral

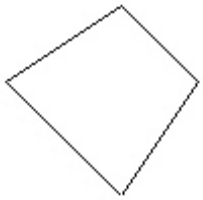
_____ 2 Find the values of the variables and the lengths of the sides of this kite.



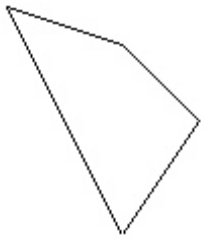
a. $x = 4, y = 11$; 1, 13
b. $x = 4, y = 11$; 6, 16
c. $x = 11, y = 4$; 1, 13
d. $x = 11, y = 4$; 6, 6

_____ 3 Which statement is true?
a. All rectangles are squares.
b. All parallelograms are rectangles.
c. All parallelograms are quadrilaterals.
d. All quadrilaterals are parallelograms.

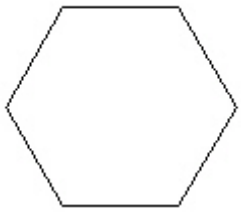
_____ 4 Judging by appearances, which figure is a trapezoid?
a.
c.

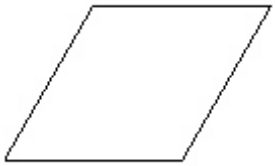


b.

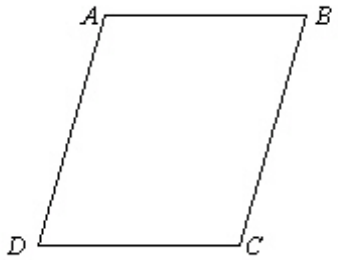


d.



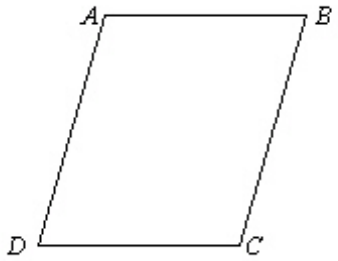


[ ] 5 *ABCD* is a parallelogram. If $m\angle CDA = 78$, then $m\angle BCD =$ ___?___. The diagram is not to scale.



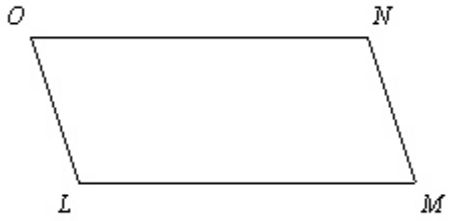
a. 112 b. 156 c. 78 d. 102

[ ] 6 *ABCD* is a parallelogram. If $m\angle BCD = 105$, then $m\angle DAB =$ ___?___. The diagram is not to scale.



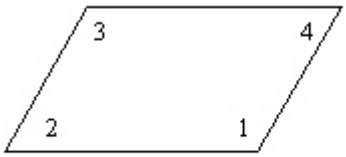
a. 75 b. 120 c. 85 d. 105

[ ] 7 *LMNO* is a parallelogram. If $NM = x + 13$ and $OL = 3x + 7$ find the value of x and then find *NM* and *OL*.



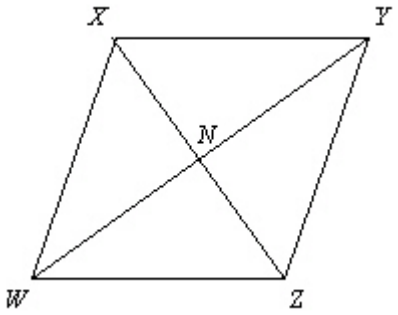
a. $x = 3$, $NM = 18$, $OL = 16$
b. $x = 5$, $NM = 18$, $OL = 18$
c. $x = 5$, $NM = 16$, $OL = 18$
d. $x = 3$, $NM = 16$, $OL = 16$

8 For the parallelogram, if $m\angle 2 = 4x - 27$ and $m\angle 4 = 3x - 14$, find $m\angle 1$. The diagram is not to scale.



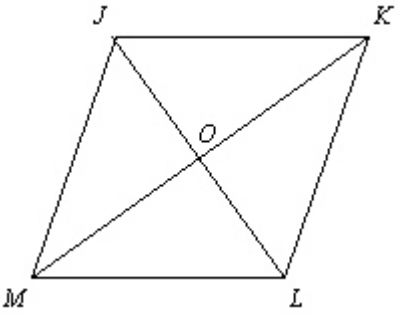
a. 165
b. 25
c. 155
d. 13

9 *WXYZ* is a parallelogram. Name an angle congruent to $\angle WZY$.



a. $\angle ZXY$
b. $\angle XWZ$
c. $\angle ZXW$
d. $\angle WXY$

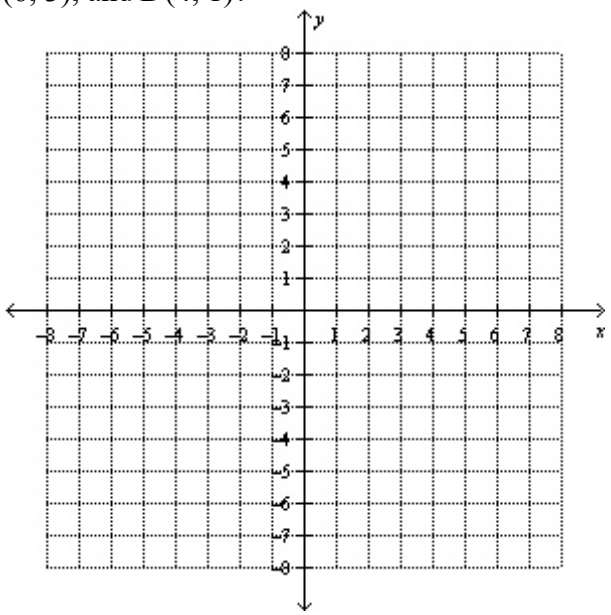
10 In the parallelogram, $m\angle KLO = 45$ and $m\angle MLO = 73$. Find $\angle KJM$. The diagram is not to scale.



a. 108
b. 73
c. 118
d. 45

11

What is the most precise name for quadrilateral *ABCD* with vertices *A*(–3, 1), B(–1, 3), C (6, 3), and *D*(4, 1)?



a. rhombus b. rectangle c. quadrilateral d. parallelogram

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